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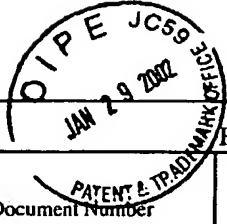
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| Form PTO-1449 (Substitute) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | Attorney Docket Number PACT 1000-2 | Serial/Patent Number 10/038,090 |
| | | Applicant/Patent Owner Gary Powell | |
| | | Filing/Issue Date 29 October 2001 | Group Art Unit Unassigned |

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**
(Use several sheets if necessary)

| U.S. PATENTS | | | | | | | |
|------------------|---------------|------------|----------------------|-------|----------|-------------|--|
| Examiner Initial | Patent Number | Issue Date | First Named Inventor | Class | Subclass | Filing Date | |
| OTM | 6,134,005 | 10/17/00 | Smith, Jr. et al. | 356 | 346 | 04/23/98 | |
| | 5,949,193 | 09/07/99 | Roine et al. | 315 | 111.51 | 10/10/96 | |
| | 4,147,431 | 04/03/79 | Mann | 356 | 72 | 01/25/78 | |
| | 5,857,890 | 01/12/99 | Ferran | 445 | 67 | 03/21/97 | |
| | 5,273,610 | 12/28/93 | Thomas, II et al. | 156 | 345 | 06/23/92 | |
| | 5,326,975 | 07/05/94 | Barna | 250 | 372 | 06/15/93 | |
| | 4,609,426 | 09/02/86 | Ogawa et al. | 156 | 626 | 05/22/85 | |
| | 5,963,336 | 10/05/99 | McAndrew et al. | 356 | 437 | 09/10/96 | |
| | 6,045,618 | 04/04/00 | Raoux et al. | 118 | 715 | 10/30/96 | |
| | 6,046,796 | 04/04/00 | Markle et al. | 356 | 72 | 04/22/98 | |
| | 6,068,783 | 05/30/00 | Szetsen | 216 | 60 | 04/28/98 | |
| | 4,859,277 | 08/22/89 | Barna et al. | 156 | 626 | 05/03/88 | |
| | 4,847,792 | 07/11/89 | Barna et al. | 364 | 552 | 05/04/87 | |
| | 5,546,322 | 08/13/96 | Gifford et al. | 364 | 497 | 04/12/94 | |
| Ufer | 5,877,032 | 03/02/99 | Guinn et al. | 438 | 9 | 08/27/96 | |

| U.S. PATENT PUBLICATIONS | | | |
|--------------------------|---------------------------------------|------------------|-----------|
| Examiner Initial | Patent Application Publication Number | Publication Date | Applicant |
| | | | |

| PENDING U.S. PATENT APPLICATIONS | | | | |
|----------------------------------|--------------------|-------------|----------------------|----------------------------------|
| Examiner Initial | Application Number | Filing Date | First Named Inventor | Petition to Expunge? Yes No |
| | | | | |



| FOREIGN PATENT DOCUMENTS | | | | | | | |
|--------------------------|-----------------|------------------|---------|-------|----------|-------------------------|--|
| Examiner Initial | Document Number | Publication Date | Country | Class | Subclass | Translation Yes No | |
| | 58084431 A | 20/05/83 | Japan | | | Abstract only | |

| OTHER DOCUMENTS (Include author (if any), title, publisher and place of publication, date and pertinent pages) | | |
|--|--|--|
| W | | Danner et al. <i>Downstream Atomic Monitoring for Absolute Etch Rate Determinations</i> J. Electrochem. Soc: Solid-State Science and Technology April 1983 |
| W | | Lichtman <i>Residual Gas Analysis: Past, Present and Future</i> J. Vac. Sci. Technol. A 8 (3) May/June 1990, 1990 American Vacuum Society |
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| Examiner | THIENLE | Date Considered | 1/7/02 |
| <p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p> | | | |
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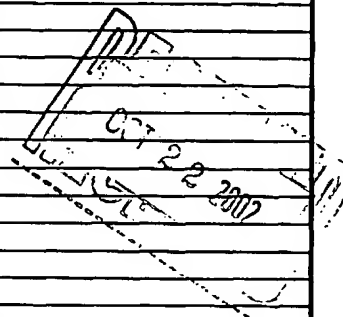
PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
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| Substitute for form 1449A/PTO | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Application Number | 10/038,090 |
| | | Filing Date | 29 October 2001 |
| | | First Named Inventor | Gary Powell et al. |
| | | Group Art Unit | 2877 |
| | | Examiner Name | Unassigned |
| Sheet 1 of 1 | Attorney Docket Number | PACT 1000-2 | |



| U.S. PATENT DOCUMENTS | | | | | | |
|-----------------------------------|--------------------------|----------------------|--------------------------------------|--|--|--|
| Examiner Initials ¹ | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number | Kind Code ² (if known) | | | |
| LM | A1 | 5,986,747 | | Moran | 11/16/1999 | |
| LM | A2 | 4,857,136 | | Zajac | 08/15/1989 | |
| | A3 | | | | | |
| | A4 | | | | | |
| | A5 | | | | | |
| | A6 | | | | | |
| | A7 | | | | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|-----------------------------------|--------------------------|-------------------------|---------------------|--------------------------------------|--|--|--|----------------|
| Examiner Initials ¹ | Cite No. ¹ | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁸ |
| | | Office ³ | Number ⁴ | Kind Code ⁵ (if known) | | | | |
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| Examiner Signature | THIEN LE | Date Considered | 11/7/2003 |
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| Examiner Name | Unassigned |
| Attorney Docket Number | PACT 1000-2 |

Sheet 1 of 1



U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-----------------------|--------------------------|----------------------|--------------------------------------|--|--|--|
| | | Number | Kind Code ² (if known) | | | |
| WV | A1 | 6,366,346 | | Nowak et al. | 04/02/2002 | |
| | A2 | | | | | |
| | A3 | | | | | |
| | A4 | | | | | |
| | A5 | | | | | |
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